

THE RAMTOP

FEBRUARY

1986

PUBLISHED BY THE
GREATER CLEVELAND SINCLAIR USERS GROUP

England
is coming to
Cincinnati, Ohio
May 3 and 4 1986

WEST SIDE GROUP MEETS AT GETHSEMANE LUTHERAN CHURCH
14560 MADISON AVE. LAKEWOOD, OHIO 7:30 P.M.
EVERY THIRD FRIDAY EACH MONTH (EXCEPT DECEMBER)
CONTACT: DICK SIEG (216) 433-4387

EAST SIDE GROUP MEETS AT THE EUCLID SQUARE MALL
IN THE EUCLIDIAN ROOM 7:30 P.M.
EVERY FIRST FRIDAY EACH MONTH
CONTACT: MAX SCHOENFELD (216) 371-1096

A short note to our friends from other newsletters and magazines. You are welcome to use any of our material, news, adds, or programs if YOU: (1) Tell where it came from (RAMTOP Cleveland, Ohio) and (2) The author's name that wrote the article. We would appreciate it if you would send us a copy of the newsletter that it appeared in! Unless otherwise notified we will do the same.

THANK YOU FOR YOUR INTEREST IN OUR NEWSLETTER !

THE TSU-BBS IS ALIVE
SYSOP:Chris Raynak PHONE:216-327-1099 PARAMETERS:8/2/N PASSWORD:sieg

T/S RESOURCES

news/rumors: hardware - software - literature - events

February 1986

by Andy Kosiorek, president
Cleveland Sinclair User' Group

1986 MIDWEST TIMEX/SINCLAIR COMPUTERFEST

Details for the Midwest Timex/Sinclair Computerfest to be held in Cincinnati have now been firmed up.

Organized and sponsored by users from Ohio, Indiana and Kentucky this event promises to be an outstanding assembly of I/S Users from throughout the Midwest, if not the Nation. Response to the initial mailing notice has been greater then anticipated. There will be displays by hardware and software manufacturers and vendors, plus users groups in an exhibit room of approximately 2400 sq. feet. There will be meetings, lectures and a flea market. Many of the "who's-who" of the I/S Users community will be there, plus perhaps some guests from England. AS OF 1/27 Aerco, Zebra, Russell, T-S Horizons, Time-Designs & several users groups had signed up.

The dates are Saturday and Sunday, May 3rd & 4th.
The place is the RAMADA INN, Sharonville, Ohio.

I-75 @ Sharon Rd. - exit # 15.

This Ramada Inn is located on I-75, and is easily accessable from I-71, I-275, and other connecting Interstates. At this location there are many motels, about 35 choices of resturants, and a shopping center with more the 100 stores. The area is only minutes from downtown Cincinnati and about 12 minutes from Kings Island. The Inn has all the usual ammenities.

REGISTRATION FEES are: Individual-\$4.00 advance, \$5 at the door. (includes both days) Family-\$7.00 advance, \$8.00 at the door. Advance registration deadline is March 15th.

LODGING: Arrangements have been made for Commercial room rates at the RAMADA INN. \$40.00 single, 48.00 double, per night.

513-771-0300 VISA, MC, AE, DI.

Each individual is responsible for making his own advance registration, lodging and transportation arrangements. Our Club, The Greatr Cleveland Sinclair User's Group will have a table in the exhibition area. Volunteers will be needed to attend the table, and prepare our exhibits and any literature that we will distribute. This will be discussed at the next several meetings.

There is a form in this issue of the RAMTOP that you may use for advance registration. Make lodging reservations directly with the Hotel of your choice.

T/S RESOURCES - continued

news/rumors: hardware - software - literature - events

February 1986

by Andy Kosiorek

Potpourri:

Thomas Woods has developed a 32K Banked Switched programmable Memory Cartridge for the TS 2068. It is battery protected to retain its programs when the computer is switched off. A write protect switch lets you use memory like a EPROM. Therefore you can run your own plug in programs, or extend your memory capacity by 32K. With detailed instructions for bank switching and data transfers. \$110.00.....Inquire to T. B. Woods, P.O. Box 64, Jefferson N.H. 03583 603-586-7734

RAMEX has set up a new Company, called "Foundation Systems" to market the "QL".

Zebra will soon be marketing accessories that will enable their 2068 Disk Drive System to Save/Load Spectrum Programs and CP/M.

Several sources have reported that the Radio Shack Mouse will work with the Zebra Graphics interface and Tech-Draw Software. This is in lieu of using the Graphics Pad. Some minor rewiring of the connectors is required.

Beginning March 28th "ZX COMPUTING MAGAZINE" goes monthly.

PLEASE use the form on the inside of the back page to register for the MIDWEST T/S COMPUTERFEST!

Free Adds for February

FOR SALE: Sears BETA VISION Vidio Cassette Recorder (not working good: snowy picture) \$100 or best offer or trade for 2068 in good condition. Toby Radloff: 429-1191 (leave message with my Grandparents if I'm not home or see me at the next meeting)

FOR SALE: Plans for Hardware modifications to the 2068.

- 1) RESET switch ----- \$1.00
- 2) ON/OFF LED indicator ----- \$2.00
- 3) PAUSE switch ----- \$1.00
- 4) Speaker ON/OFF switch ----- \$1.50
- 5) AUX./headphone output ----- \$2.00

All come with parts list. Write to: ERIC YRUEGAS,
4706 Langley Ave., Whitehall, OH. 43213

WANTED: A Schematic for the T/S 1500 !!!. If you have one, please send to AL Gedris
355 Royal Oak Blvd., Richmond Hts., Ohio 44143, or give me a call:(216) 481-8205. 3

Hello sports fans! I'm back with another installment of OnLine! I have a re-print of my first article! I hope you like it!

This month, I am going to discuss the IF-THEN statement. Let's start off by saying that this is the statement that allows the computer to make decisions. Consider this-

```
10 IF X THEN PRINT "YES"
```

In this statement, it is simply saying that if X does not equal zero (X can be a negative number also), print the word "YES". Now, let's get a little more complex-

```
10 IF X=5 THEN PRINT "OK"
```

I'll bet that you've already figured this one out. Here, it's saying that X must be equal to 5 for the computer to print the word "OK". Let's continue-

```
10 IF X>5 THEN PRINT "OK"
```

That one was even simpler. X now must not equal 5 for the computer to print "OK". X can be any other number - decimals included! Try this-

```
10 IF X<5 THEN PRINT "OK"
```

This one is saying that X must be less than 5 to print the word. You also can substitute the greater-than sign (>), and then X would have to be greater than 5 to print the message.

All of the above examples are what are called RELATIONAL operators. Numeric relational operators, to be exact. I'll go over the string operators next month. Now, let's move on into the realm of BOOLEAN operators.....

These next set of operators are not all that difficult to understand, once you know what it is that they do. I will go over the three basic ones, logical NOT, logical AND, and logical OR. These are called logical because they are either true, or untrue - a 1 or a 0. Let's get started. NOT: a logical complement. In English, this means that if a variable, or an arithmetic problem has a result of zero, the computer will do whatever the command is after the THEN part of the statement. If the result is a non-zero answer, it will go on the next program line. Take a look at this-

```
10 IF NOT A=1 THEN PRINT "A IS NON-ZERO"
```

Now, pick a number to be A... Let's let it equal 5. Is it a non-zero number? Yes. Now think! If the variable, or number has a non-zero answer, the condition is said to be a "0". Does 0=1? No! This means that the computer will not print the message. This isn't all that hard, is it? Let's go on-

Now we are going to look at the AND operator. This is used when you want to put a multiple condition in a statement. It kind of works like the NOT. Both conditions must be "true", or a "1" for the computer to do the command after the condition. One thing

is just a little bit different - for it to be "true", both variables or the addition, or whatever arithmetic problem is performed, both answers must be a non-zero number (negatives included!). For example-

```
10 LET A=5  
15 LET B=2  
20 IF A AND B THEN PRINT "OK"
```

If you are close to your computer, type that in and RUN it. If not, go through and try to figure out what will happen. Done? Well, if you thought that the computer printed "OK", then you are right. Now change line 20. Let B equal 0. RUN it again. Did you see the word "OK"? No! But why? Remember - both must be non-zero!

Just one more, and we'll be done. Let's take a look at the OR operator. This is used when you want to put a "either-one-will-do-fine" condition in the statement. When we say "OR", we mean that either number, variable, etc., must be true, or a non-zero number.

```
10 LET A=0  
15 LET B=0  
20 IF A OR B THEN PRINT "OK"
```

Try that one on for size! See if you can figure out what happens. Did you see "OK" on the screen? You should have! Why? Is B a non-zero? No, but A is! Like I said, it only takes one non-zero number to make it true. Well that's all for this month!

Did you like that? I hope so. Since there have been many letters this month, I thought that I'd share one with you.

Dear Eric,

Hi! My name is David Johnson and I'm a fellow TS2069 user just 40 miles north of you. Your OnLine article was a fine one, Eric. Problem: I couldn't get your program in the Jan. RAMTOP pg. 3 to run. Can you help.

David Johnson

Well David, I know why that program didn't work. I made a typo in line 80 of the listing. The corrected line is:

```
80 FOR p=0 to 7: POKE (ct+p+(j-32)*8),VAL ("BIN "+b$(p+1)): NEXT P
```

Thank you David, for catching that! I didn't see it!

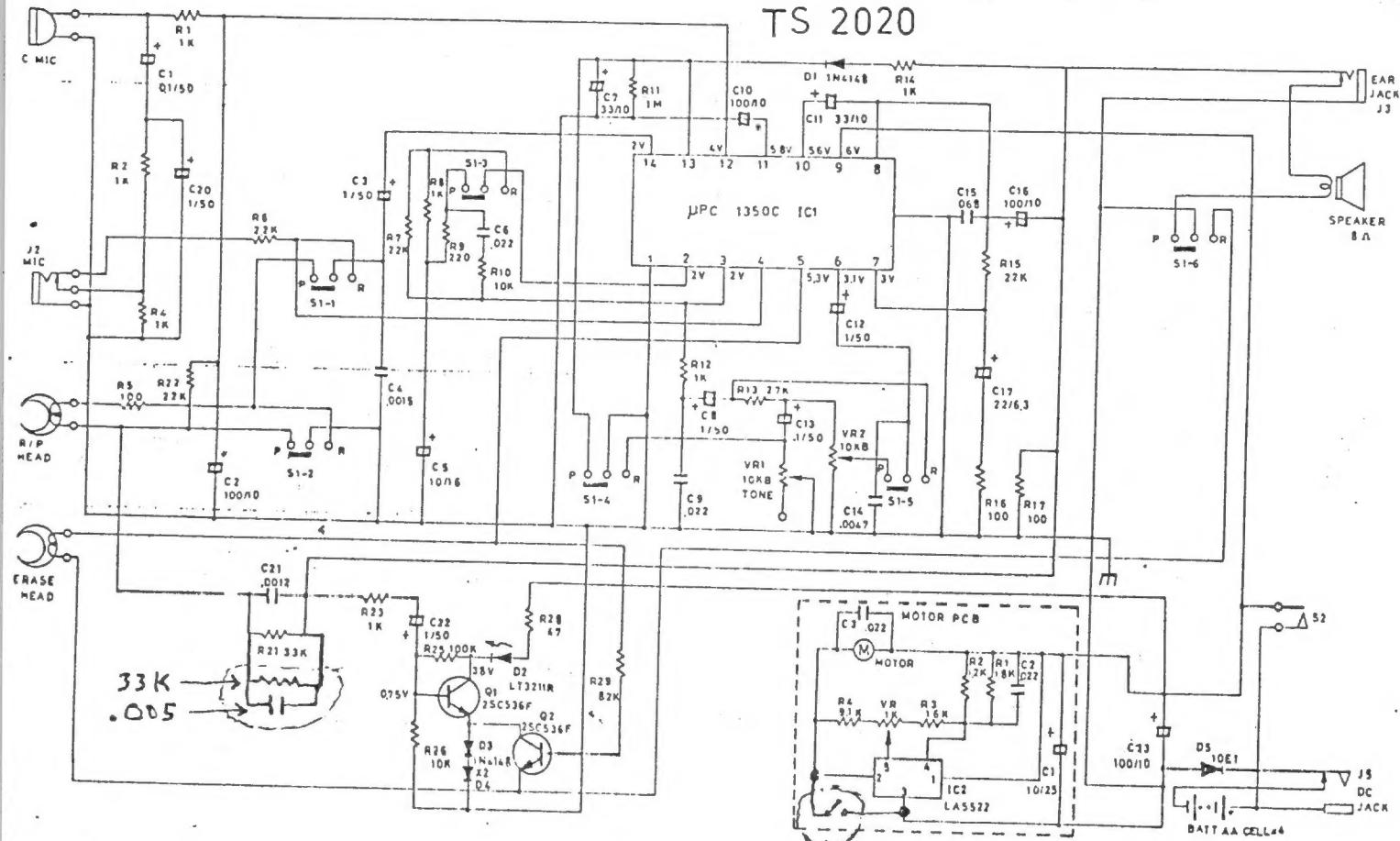
Send comments, questions, or any other correspondence to:

OnLine
c/o: Eric Yruegas
4706 Langley Ave.
Whitehall, OH 43213-3124

I know that many of you have the 2020 cassette recorder. I have one myself. I have found several ways to get a better signal from it and also a way to add a button that will allow you fast wind 2 or 3 times faster than normal so you can fast forward or rewind those long tapes in short order. I have found that the output level from tape that you record on this machine is rather low. This requires you to turn the level almost all the way up. If you add a resistor and a cap as shown in this schematic, you will increase the signal on the tape as well as changing the amount of high end recorded. I have found that after making this minor modification that I can lower the volume level to the same or lower than prerecorded tapes.

Remove the back and look at the printed circuit board. C21 is mounted on the back of the PCB so it is easy to get to. It is marked .0012. Just add the 2 parts.(a 33K resistor and a .005 cap.) Now for the Fast button. This is also easy to do. simply drill a small hole (1/4 or smaller) for the button in the lower right corner next to the built in mic. Install the momentary button and solder 2 wires about 3" long. Solder one wire to terminal 2 of the IC regulator on the small PCB and the other wire goes to terminal 3. If the button doesn't work, you are on terminals 3 and 4 instead. Be careful not to apply too much heat when soldering! A 10 to 35 watt iron works best. If you have a problem, give me a call! (661-4105)

James G. DuPuy



IC1
IC2
Q1 Q2
D1 3.6
D2
LT321IR

μPC 1350C
LA5522
2SC536F
1N4148
LT321IR

S1 RECORD/PLAYBACK SWITCH (PLAYBACK POSITION)
S2 POWER ON/OFF SWITCH (OFF POSITION)
D5 10E1
--- PLAYBACK POSITION

NOTES:
 1 ALL RESISTANCE VALUES ARE IN Ω $R=1000\Omega$ $M=1000\text{KA}$
 2 ALL CAPACITANCE VALUES ARE IN μF $P=10^6 \mu\text{F}$
 3 ALL RESISTORS ARE 1/8 WATT UNLESS OTHERWISE SPECIFIED
 4 VOLTAGES MEASURED FROM POINT INDICATED TO CHASSIS GROUND
 WITH V.T.V.M. WITH VOLUME AT MIN AND NO SIGNAL

→ Added Fast Button (Momentary)

Here it is February already! Where does the time fly to?! I hope this makes it to you East siders before the meeting! If not, Please forgive me as I have been quite busy. As you can see from this issue and those before it, the so-called "dead end" computers are very much alive and kicking hard! I just can't believe all the new hardware for the 2068 lately! I know that I am getting the bug for a disc drive but I am having a tough time deciding which one to purchase!

I am hoping that sometime we can talk all our members that have disc to bring them to a meeting so that those such I can see them at the same time and evaluate them. I saw Chris's drive and interface from John Olinger. I was impressed! It is cheeper than the Zebra system but is not as flexable in some respects. It will work for 2068 or Spectrum though! Andy told me that the Zebra system will shortly have a "fix" that will allow you to use it for Spectrum AND 2068 also. It is supposed to be just like ROM Switch.

I am quite excited about the I/S Computerfest! I am hoping to attend! I hope that many of you can also make it! It looks to be quite a big event. See I/S Resources for details and the registration form.

I have received quite a few requests for a sample issue from an add that I put in Computer Trader Magazine.

our treasurer, Robert Parish, is still looking for a buyer for his 2068 system. It includes: A 2068 with Spectrum switching, audio and RGB outputs, a Taxan 210 RGB monitor with audio, a 2040 printer, a 2050 modem, a Tasman B interface, and a TON of software! He has a lot of books and such also for the 2068. His unit is in very good condition. If you are interested, he is asking \$400 for the whole shot. 671-6322

I hope you all have a great month and PLEASE keep those article rolling in! The address is:
 James G. DuPuy (phone: 661-4105)
 6514 Bradley Ave. (DOWN)
 Parma, Ohio 44129

```

    1 REM Window scrolls
    in 4 directions.
    2 REM Pete Cooke May 84
    10 CLEAR 60999: GO SUB 9500:
    REM POKE in this DATA!
    100 BORDER 1: PAPER 1: INK 7: C
    LS: PRINT TAB 8;"Window scroll"
    ng":TAB 8;"Demonstration"
    110 PRINT AT 4,0;"Use keys 5-8"
    120 POKE 61214,5: REM START X
    130 POKE 61215,5: REM START Y
    140 POKE 61215,25: REM FINISH X
    150 POKE 61217,50: REM FINISH Y
    600 PRINT AT 10,0: FOR n=1 TO
    78: PRINT "demo";: NEXT n
    610 LET z$=INKEY$:
    620 IF z$="8" THEN LET v=USR 61
    630 IF z$="7" THEN LET v=USR 61
    640 IF z$="5" THEN LET v=USR 61
    650 IF z$="6" THEN LET v=USR 61
    660 GO TO 210
    6099 STOP
    6000 DATA 195,36,121,195,82,121,
    195,127,121,195
    6010 DATA 185,121,221,33,238,121
    ,121,126,1,221
    6020 DATA 70,3,126,197,245,205,2
    60,121,125,221
    6030 DATA 134,0,111,235,241,245,
    61,205,200,121
    6040 DATA 125,221,134,0,111,221,
    70,3,8,0
    6050 DATA 237,176,241,61,193,16,
    228,201,221,33
    6060 DATA 238,121,221,126,1,221,
    70,3,197,245
    6070 DATA 205,200,121,125,221,16
    4,0,111,235,241
    6080 DATA 245,60,205,200,121,125
    ,221,134,0,111
    6090 DATA 221,78,2,6,0,237,176,2
    41,80,193
    6100 DATA 16,222,201,221,33,238,
    131,221,126,1
    6110 DATA 221,70,3,197,245,205,2
    60,121,125,221
    6120 DATA 134,0,221,134,2,111,22
    1,70,2,183
    6130 DATA 203,22,43,16,251,241,6
    6,193,16,229
    6140 DATA 201,221,33,238,121,221
    ,126,1,221,70
    6150 DATA 3,197,245,205,200,121,
    126,221,134,0
    6160 DATA 111,221,70,2,183,203,3
    6,33,18,251
    6170 DATA 241,60,193,16,232,201,
    618,33,0,0
    6180 DATA 87,62,175,146,245,236,
    7,103,241,245
    6190 DATA 200,56,203,39,203,39,1
    11,241,230,192
    6200 DATA 203,63,203,63,203,63,1
    62,103,17,0
    6210 DATA 64,25,209,201,0,0,32,1
    75
    6500 CLS : PRINT AT 5,5;"Poking
    in M/Code";AT 7,5;"Please wait."
    6510 LET total=0: RESTORE 9000:
    FOR n=61000 TO 61217: READ a: LE
    T total=total+a
    6520 POKE n,a
    6530 NEXT n: IF total<>29511 THE
    N PRINT "ERROR in DATA!""DO NOT
    RUN!": STOP
    6540 RETURN

```

here on this page and the back page are four short graphic programs for the 2050. Next month I hope to have a continuation of the Star Trek program for the 1000/1500.

```
5>REM Moving waves by  
      EVERETT PENCE  
9 LET g=0: LET r=0  
10 PRINT  
11 LET r=r+.05  
12 LET e=0  
13 POKE 23692,0  
15 LET g=g+.5  
16 PLOT 130,0: DRAW 0,8  
17 PLOT 130+r*SIN g,e  
20 GO TO 10
```

```
5 REM This program turns a  
B&W screen upside down  
7 REM WRITTEN BY:  
      EVERETT PENCE  
10 FOR y=0 TO 87  
20 FOR x=0 TO 255  
30 LET a=POINT (x,y)  
40 LET b=POINT (x,175-y)  
50 PLOT INVERSE (1 AND a<>1);x  
60 PLOT INVERSE (1 AND b<>1);x  
,y  
70 NEXT x  
80 NEXT y
```

If you would like to subscribe to the RAMTOP please fill out this form and send it to the listed address along with a check for: \$15/Year or \$7.50/ 6 mo. to become a member of our Group (Attend meetings, use library tapes Ect.) or: \$12/Year or \$6/ 6 months to receive the RAMTOP only.

Please print! Enclosed: \$ _____ for 1 year ___ / 6 months ___

*
*NAME: _____ PHONE: _____ *

*
*STREET: _____ *

*CITY: _____ STATE: _____ ZIP: _____ *

*
*Type of computer(s) and peripheral(s) you own: _____ *

*
*
*
*THANK YOU for your interest! Please send to: *

*James G. DuPuy, 6514 Bradley Ave.(Down), Parma, Ohio, 44129 *

Here is the Registration form to attend the Computerfest.

```

5 REM SOLID CIRCLES
r=radius s=x coord t=y coord
ovx= oval offset x
ovy= oval offset y
      GOSUB 8480 Draws solid
circle
8 PAPER 0: BORDER 0: INK 6
10 LET r=70: LET s=90: LET t=7
0: LET ovx=.5: LET ovy=1
20 GO SUB 8480
22 LET r=40: LET s=200: LET t=
100: LET ovx=1: LET ovy=.25: INK
3
25 GO SUB 8480
27 LET r=20: LET s=210: LET t=
30: LET ovy=1: INK 4
30 GO SUB 8480
40 STOP
8480 LET k=PI/(3.2*r)
8490 FOR n=0 TO 1.57 STEP k: LET
  x=ovx*t*COS n: LET y=ovy*t*SIN
n
8500>PLOT x+s,y+t: DRAW INT (-2*
x),0: PLOT x+s,y-t: DRAW INT (-2*
*x),0: NEXT n
8510 RETURN

```

5 REM This is an update to
 a program in the April RAMTOP.
 The change is in line 145. The
 results are much better.

```

20 PLOT 0,0: DRAW 0,175: DRAW
255,0: DRAW 0,-175: DRAW -255,0
35 LET xs=.78: LET ys=.85
40 LET p=128: LET q=95: LET xp
=144: LET xt=1.5*PI: LET yp=56:
LET yr=1
50 LET zp=64: LET xf=xt/xp: LE
T yf=yp/yr: LET zf=xt/zp: LET xq
=xp/zp
60 FOR k=-zp TO zp
70 LET zt=k*xq
80 LET xl=INT (.5+SQR (xp*xp-z
t*zt))
90 FOR t=-xl TO xl
100 LET xt=SQR (t*t+zt*zt)*xf
110 LET yy=(SIN (xt)+.4*SIN (3*
xt))*yf
120 LET x=(xs*(t+k))+p
130 LET y=(ys*(yy-k))+q
140 PLOT x,y
145 PLOT INVERSE 1;x,y-1: DRAW
INVERSE 1;0,1-(y-1)
150 NEXT t
160 NEXT k
170 STOP

```

From:
THE GREATER CLEVELAND SINCLAIR USERS GROUP
 James G. DuPuy (Editor)
 6514 Bradley Ave. (Down)
 Parma, Ohio 44129